

1 CLAIMS:

2 We claim:

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4 1. An impact shoe for use on a rotating table in a centrifugal impact crusher,
5 the impact shoe comprising:

6 a. an impact shoe body configured to be secured to a rotating impact
7 shoe table, the impact shoe body including a plurality of separate
8 elongated wear inserts transversely embedded therein.

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10 2. An impact shoe for use on a rotating table in a centrifugal impact crusher,
11 as recited in claim 1, and in which each wear insert has a width, and there being
12 a distance between adjacent wear inserts, wherein the ratio of the distance between
13 adjacent wear inserts to the width of the wear inserts is less than two and one-
14 half to one.

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16 3. An impact shoe for use on a rotating table in a centrifugal impact crusher,
17 as recited in claim 1, and in which each wear insert has a width, and there being
18 a distance between adjacent wear inserts, wherein the ratio of the distance between
19 adjacent wear inserts to the width of the wear inserts is less than two to one.

1 4. An impact shoe for use on a rotating table in a centrifugal impact crusher,
2 as recited in claim 1, and in which each wear insert has a width, and there being
3 a distance between adjacent wear inserts, wherein the ratio of the distance between
4 adjacent wear inserts to the width of the wear inserts is less than one to one.

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6 5. An impact shoe for use on a rotating table in a centrifugal impact crusher,
7 as recited in claim 1, and in which the impact shoe is secured to the rotating
8 impact shoe table through attachment to an impact shoe support, which is directly
9 attached to the impact shoe table.

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11 6. An impact shoe for use on a rotating table in a centrifugal impact crusher,
12 the impact shoe comprising:

- 13 a. an impact shoe body configured to be secured to an impact shoe
14 support, the impact shoe body being elongated and having a
15 longitudinal length and a transverse height;
- 16 b. the impact shoe body including a first set of one or more embedded
17 elongated wear inserts transversely oriented within the impact shoe
18 body, and which are a first length;
- 19 c. the impact shoe body further including a second set of one or more
20 embedded elongated wear inserts transversely oriented within the
21 impact shoe body, and which are a second length; and
22 wherein the first length is greater than the second length.
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1 7. An impact shoe for use on a rotating table in a centrifugal impact crusher,
2 the impact shoe comprising:

- 3 a. an impact shoe body which may be secured to an impact shoe
4 support, the impact shoe body being elongated and having a
5 longitudinal length and a transverse height; and
6 b. the impact shoe body further including a first elongated wear insert
7 transversely oriented within the impact shoe body at a first angle
8 relative to the impact shoe body, and further including a second
9 elongated wear insert transversely oriented at a second angle relative
10 to the impact shoe body.
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